

MATERIAL SAFETY DATA SHEET

Total Solutions
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REVISION DATE: July 22, 2011
DATE OF ISSUE: August 1, 2011

I - Product Identification

Zap-It Ultimate

PRODUCT CODE: 0155

CHEMICAL FORMULATION: Water based concentrated systemic herbicide.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACCIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Glyphosate	18.0	N/E	N/E	N	N	N	38641-94-0

Key:

PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D
VAPOR PRESSURE (mm Hg): N/D
VAPOR DENSITY (AIR = 1): N/D
SOLUBILITY IN WATER: Soluble
APPEARANCE AND ODOR: Clear, slightly yellow liquid, no odor.
SPECIFIC GRAVITY (WATER = 1): 1.08
VOC CONTENT (% by weight): <1.0
EVAPORATION RATE (WATER = 1): N/D
pH: 4.5 - 5.5

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): >200
FLAMMABLE LIMITS IN AIR (VOLUME %) (TEST METHOD):
UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: None.

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Galvanized or unlined steel (except stainless steel) materials.

CONDITIONS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X

INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN

CARCINOGENS: None.

EFFECTS OF OVEREXPOSURE

IF IN EYES: Cause moderate irritation

IF ON SKIN: No irritation expected

IF SWALLOWED: Gastrointestinal tract irritation

IF INHALED: No know effects.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Remove contact lenses after the first 1-2 minutes if worn. If irritation persists, obtain medical attention.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, obtain medical attention.

IF SWALLOWED: Contact physician or poison control center immediately. Do not induce vomiting unless told to do so by a physician or poison control center.

IF INHALED: Remove person to fresh air. Obtain medical attention, if irritation persists.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill and ventilate area. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation.

VENTILATION LOCAL: Recommended

MECHANICAL: Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses or chemical goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing, eye wash station.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed when not in use. Do not contaminate water, foodstuffs or feed by storage or disposal.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None

DOT CLASS: None

DOT ID NUMBER: None

DOT PACKING GROUP: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: July, 22, 2011

Prepared by: Technical Dept

DATE OF ISSUE: August 1, 2011

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